Qty Qty Item Part Number Description -147 -147B D212-664-147 Х CROSSTUBE ASSEMBLY (205/212/412 LOW FWD) 2 D212-664-147B CROSSTUBE ASSEMBLY (214 LOW FWD) CROSSTUBE 3 1 D6019-128 2 D2893-1 SUPPORT 4 D3595-063-450 RUBBER CUSHION 6 2 2 D3659-1 CUFF D5017-1 SUPPORT 2 8 4 MS21920-25 CLAMP (OR MS21920-26) 9 44 44 CR3212-4-06 RIVET (OR M7885/3-4-06) A/R PROSEAL 890 B-2 SEALANT, AMS-S-8802 CLASS B-2 A/R 11 A/R A/R SIKAFLEX-241/-291 SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS **B2 SEALANT)**

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GENERAL NOTES:

- 1) MATERIAL: MANUFACTURED FROM D6019-128
- FINISHED LENGTH = 126.528±0.020 (BEFORE BENDING/TRIMMING)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: D212-664-147/-147B = 24.2 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
- EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

10) WHEN MACHINING TAPER, RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

BENDING

- 11) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED.
- 12) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

- 13) INSTALL D3659-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH A LAYER OF SIKAFLEX-241/-291 OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT BETWEEN CUFF AND CROSSTUBE. SEAL EDGE OF CUFF TO ENSURE NO GAPS.
- 14) TOUCH-UP HOLES WITH CHEMICAL CONVERSION COAT.
- 15) INSTALL D2893-1 / D5017-1 SUPPORT : ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 16) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE ON TOP SIDE OF CROSSTUBE.
- 17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.



С	D5017-1 WAS D2893-1 (-147B), PROSEAL WAS MAGNOBOND, ADD SHEET 3, NOTE 16: ADD 72HR CURE & RETORQUE, CLAMPS REVERSED TO PREVENT CHAFING (ZN B7-2, B7-3), INCORP DEO B-1				
В	REVISE GENERAL NOTES/PART LIST; UPDATE TO CURRENT STANDARDS; ADD -147B (ZN C4-2, D4-2)			RF	09.09.30
Α	NEW ISSUE			CP	07.07.07
REV.	DESCRIPTION			BY	DATE
DESIGN		9	DART AEROSPACE LTD		LTD
DRAWN		9	HAWKESBURY, ONTARI		
CHECKE	D	DW,	DRAWING NO.		REV. C
CHECKE MFG. AF		DW	DRAWING NO. D212-664-147	S	REV. C
	PPR.	DW Jedl	7	S	
MFG. AF	PR. /ED	DW Z	D212-664-147		SHEET 1 OF 5 SCALE







